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$$A_c = (0.1 \text{ [mm]} \times 0.1 \text{ [mm]} \times 16 \text{ [pieces]}) / 1 \text{ [cm]}$$

$$= 1.6 \times 10^{-3} \text{ [m}^2/\text{m}^2 \text{ floor]}$$

$$A_{cs} = (0.1 \text{ [mm]} \times 3 \text{ [mm]} \times 4 \text{ [faces]} \times 16 \text{ [pieces]}) / 1$$

$$\text{[cm]}$$

$$= 0.192 \text{ [m}^2/\text{m}^2 \text{ floor]}$$

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$$A_s = 1 - A_c$$

$$= 1 - 1.6 \times 10^{-3} \text{ [m}^2/\text{m}^2 \text{ floor]}$$

$$A_{as} = A_s + A_{cs}$$

$$= 1.19 \text{ [m}^2/\text{m}^2 \text{ floor]}$$

Here,  $A_s$  is the area in which the carpet fibers in 1 [m<sup>2</sup>] are in contact with the indoor air.

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Subsequently, using the primary condition, a secondary condition is determined by calculation (S2). The